1 Results

This section summarizes the results of the analysis, starting with the pairwise Mood's Median tests followed by the results of the modeling process. Results are compared with the work of Horne et al. and Gruppi et al. to highlight overlaps and disagreements between their results and the results of this paper.

1.1 Mood's Median Test

For each feature described in ??, a Mood's Median Test was used to test for differences between real and fake news. The table below includes the result of these tests, excluding tests with resulting p-values of > 0.05. For each predictor, the p-value of the test is given, along with a comparison of the groupwise medians to indicate which group is higher. Furthermore, as many of the features used in this paper are also used in O'Brien et al. and Gruppi et al., we indicate, when available, whether the results of these tests agree with the results found in both papers. As both papers First, a table including results for the body of articles is included, then for the titles.

Table 1.1: Results of Mood's Median Tests - Article Boo	ly
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var	Result	pval_group	Gruppi et al.	O'Brien et al.
mu_sentence	Real > Fake	< 0.001	-	Disagree
mu_verb_phrase	Real > Fake	< 0.001	-	-
num_verb_phrase	Fake > Real	< 0.05	-	-
swc	Real > Fake	< 0.001	-	-
types	Fake > Real	< 0.05	-	-
tokens	Fake > Real	< 0.001	-	-
TTR	Real > Fake	< 0.001	_	Disagree
FOG	Real > Fake	< 0.001	-	-
SMOG	Real > Fake	< 0.001	Agree	-
FK	Real > Fake	< 0.001	Disagree	Agree

CL ARI WC Tone WPS	Fake > Real Real > Fake Fake > Real Fake > Real Real > Fake	< 0.01 < 0.001 < 0.01 < 0.001 < 0.001	- Disagree - Agree	- - - -
shehe article prep auxverb conj	Real > Fake Real > Fake Real > Fake Real > Fake Fake > Real		Agree - - Agree -	Disagree
posemo negemo anger male cogproc	Fake > Real Real > Fake Real > Fake Real > Fake Fake > Real		- - -	- - - -
insight discrep differ percept see	Real > Fake Fake > Real Fake > Real Real > Fake Real > Fake		- - - -	- - - -
hear feel bio body health	Real > Fake Real > Fake Real > Fake Real > Fake Real > Fake	< 0.001 < 0.01 < 0.001 < 0.01 < 0.05	- - - -	- - -
drives affiliation achieve focuspast focuspresent	Fake > Real Fake > Real Fake > Real Real > Fake Fake > Real		- - - -	- - - -
relativ time work leisure money	Real > Fake Real > Fake Fake > Real Real > Fake Fake > Real	< 0.01 < 0.001 < 0.05 < 0.001 < 0.001	- - - -	- - - -
AllPunc	Fake > Real	< 0.01	-	-

Period Dash Quote Apostro	Fake > Real Fake > Real Real > Fake Real > Fake		- - -	- - Agree -
Parenth CC DT IN JJ	Fake > Real Fake > Real Fake > Real Fake > Real Fake > Real	< 0.05 < 0.05	- - -	- Disagree -
MD NN NNS NNP NNPS	Fake > Real Fake > Real Fake > Real Fake > Real Fake > Real	< 0.05 < 0.001 < 0.001 < 0.05	- - -	- Disagree - -
TO VB VBN VBP VBZ	Fake > Real Fake > Real Fake > Real Fake > Real Fake > Real	< 0.001 < 0.05 < 0.01	- - -	- - -
NER len	Real > Fake Fake > Real	< 0.001 < 0.001	- -	- -

blabla text body

Table 1.2: Results of Mood's Median Tests - Article Titles

var	Result	pval_group
types	Real > Fake	< 0.001
tokens	Real > Fake	< 0.001
TTR	Fake > Real	< 0.001
SMOG	Real > Fake	< 0.001
FK	Real > Fake	< 0.05
CL	Fake > Real	< 0.01
ARI	Real > Fake	< 0.05
WC	Real > Fake	< 0.001
WPS	Real > Fake	< 0.001

function.	Real > Fake	< 0.001
prep	Real > Fake	0.00
verb social	Real > Fake Real > Fake	
space	Real > Fake	
NNP	Real > Fake	
len	Real > Fake	< 0.001

1.2 Modeling